PTO/SB/05 (01-04)

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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	504835-041099					
First Inventor	John R. Hugens, Jr., et al.					
Title	Vertical Shaft Melting Furnace					
Express Mail Label No.	EV243778889US					

=	APPLICATION ELEMENTS ofter 600 concerning utility patent application contents.	ADDRESS TO: Commissi	Patent Application ioner for Patents 1450 a VA 22313-1450				
(Submit an Applicant See 37 Cf Specificat (preferred a - Descriptiv - Cross Ref - Statemen - Reference or a comp - Backgrou - Brief Sum - Brief Desc - Detailed C - Claim(s) - Abstract of A Drawing(s - Newly b. Copy f	ition [Total Pages] errangement set forth below) ve title of the invention ference to Related Applications at Regarding Fed sponsored R & D e to sequence listing, a table, outer program listing appendix und of the Invention array of the Invention cription of the Drawings (if filed) Description of the Disclosure s) (35 U.S.C. 113) [Total Sheets] executed (original or copy) from a prior application (37 CFR 1.63(d))	ii. Paper c. Statements verifying ACCOMPANYING AI 9. Assignment Papers (cor 10. 37 CFR 3.73(b) Statement (when there is an assign (when there is an assign (statement (IDS)/PTO-1.) 12. Information Disclosure Statement (IDS)/PTO-1. 13. Preliminary Amendment	g identity of above copies PPLICATION PARTS ence Listing on: g identity of above copies PPLICATION PARTS ence Listing on: GD-R (2 copies); or g identity of above copies PPLICATION PARTS ence Power of Attorney coment (if applicable) Copies of IDS Citations t				
i. DE Sigr nan 1.63	ELETION OF INVENTOR(S) need statement attached deleting inventor(s) ne in the prior application, see 37 CFR 3(d)(2) and 1.33(b). tion Data Sheet. See 37 CFR 1.76	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other:					
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the							
	ving the title, or in an Application Data Sheet under 3						
Continuat	tion Divisional Continua	ation-in-part (CIP) of prior application	on No.:				
Prior application information: Examiner							
	19. CORRESPON	DENCE ADDRESS					
Customer	Number:	OR C Corre	espondence address below				
Name St	tephen D. Scanlon, Esq.						
I Addroce —	ONES DAY orth Point, 901 Lakeside Avenue						
	leveland						
Country US	S T	elephone 216-586-7023	^{Fax} 216-579-0212				
Name (Print/Type)	Stephen D. Scanlon	Registration No. (Attorney/Agent)	32,755				
Signature	Storm O. Santon		Date 01/28/2004				

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-03) Approved for use through 07/31/2006. OMB 0651-0032

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.								
				Complete if Known				
FEE TRANSMITTAL			Application Number		Numb	er Not Yet Assigned		
for EV 2004				Filing Date		January 28, 2004		
for FY 2004			First Named Inventor		d Inver	ntor John R. Hugens, Jr., et al.	John R. Hugens, Jr., et al.	
Effective 10/01/2003. Patent fees are subject to annual revision.			Examiner Name			Not Yet Assigned		
Applicant claims small entity status. See 37 CFR 1.27			Art Unit			Not Yet Assigned		
TOTAL AMOUNT OF PAYMENT	(\$) 2,078.00		Attorney Docket No.		cket N	No. 504835-041099		
METHOD OF PAYMENT (check all that apply)			FEE CALCULATION (continued)					
Order U			DDITI Entity Fee	Smal				
Deposit Account Number		1051	,	Code 2051	,	•	Fee Paid	
Deposit Account Name	cover sheet							
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments			2,520		130 2,520	Non-English specification For filing a request for <i>ex parte</i> reexamination		
Charge any additional fee(s) or any underpayment of fee(s)		1804	920*	1804		Requesting publication of SIR prior to Examiner action		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		4000	4 0 4 0 *	14005	1 9/0*	Requesting publication of SIR after		
	or the filing fee	1805	1,840*	2251	•	Examiner action Extension for reply within first month		

Deposit Account	JONES DAY	1052	50	2052		Surcharge - late provisional filing fee or cover sheet		
Name The Director is authorized to (check all that apply)		1053	130	1053	130	Non-English specification	L	
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments		nts 1812	2,520	1812 2	2,520	For filing a request for ex parte reexamination		
i= *	additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
~	s) indicated below, except for the filing fee entified deposit account.	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action		
10 1110 00010 10	FEE CALCULATION	1251	110	2251	55	Extension for reply within first month		
1. BASIC F		1252	420	2252	210	Extension for reply within second month		
Large Entity S		1253	950	2253	475	Extension for reply within third month		
Fee Fee	Fee Fee <u>Fee Description</u> Fee Pa	aid ₁₂₅₄	1,480	2254	740	Extension for reply within fourth month		
• • • • • • • • • • • • • • • • • • • •	Code (\$)	1255	2.010	2255	1.005	Extension for reply within fifth month		
1001 770	2001 385 Utility filing fee 770.	140	•	2401	165	Notice of Appeal		
1002 340	2002 170 Design filing fee 2003 265 Plant filing fee	1402		2402		Filing a brief in support of an appeal		
1003 530		1403		2403		Request for oral hearing		
1004 770			1,510	1451		Petition to institute a public use proceeding		
1005 160	2005 80 Provisional filing fee	 1452	•	2452		Petition to revive - unavoidable		
.	SUBTOTAL (1) (\$) 770.00							
2. EXTRA (LAIM FEES FOR UTILITY AND REIS	SHE	3 1,330	2453		Petition to revive - unintentional		
	Fee from Extra Claims below Fee	150	1,330 2 480	2501 2502		Utility issue fee (or reissue)		
Total Claims	64 -20** = 44 x 18 = 792					Design issue fee		
Independent Q 211 - 6 V 86 - 516		130		2503		Plant issue fee		
Claims Multiple Depe		1460		1460		Petitions to the Commissioner		
Larra Entitu	Constitution Constitution	180		1807		Processing fee under 37 CFR 1.17(q)		
Large Entity Fee Fee	Small Entity Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt		
Code (\$)	Code (\$)	802°	1 40	8021	40	Recording each patent assignment per property (times number of properties)		
1202 18 1201 86	2202 9 Claims in excess of 20 2201 43 Independent claims in excess of	1809	770	2809		Filing a submission after final rejection (37 CFR 1.129(a))		
1203 290	2203 145 Multiple dependent claim, if not		770	2810	ነ ረይፍ	For each additional invention to be		
1204 86	2204 43 ** Reissue independent claims	1010	, ,,,,	2010	, 555	examined (37 CFR 1.129(b))		
,204 00	over original patent	180	1 770	2801	385	Request for Continued Examination (RCE)		
1205 18	2205 9 ** Reissue claims in excess of 2 and over original patent	0 180	2 900	1802	900	Request for expedited examination of a design application		
SUBTOTAL (2) (\$) 1,308.00			Other fee (specify)					
**or number previously paid, if greater: For Reissues, see above				duced by Basic Filing Fee Paid SUBTOTAL (3) (\$)				

**or number previ	ously paid, if greater; For Reissues, see above	*Reduced by Basic Fili	ng Fee Paid	SUBTOTAL	(3) (\$)
SUBMITTED BY				(Complete (if applicable))
Name (Print/Type)	Stephen D. Scanlon	Registration No. (Attomey/Agent)	32,755	Telephone	216-586-7023
Signature	Stophen D. Scanler	~		Date	01/28/2004

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